

Work Assignment 1-04

Title: PChem/Fate Review of HPV/MPV

Contractor: SRC, Inc.

Contract No. EP-W-12-003

Estimated Period of Performance: January 1, 2013 through December 31, 2013

Estimated Level of Effort: 790 hours

Key Personnel:

<u>Project Officer</u> Cynthia Bowie Office of Pollution & Toxics Tele. (202) 564-7726 Fax (202) 566-0628 Email: bowie.cynthia@epa.gov U.S. Mail: U.S. EPA 1200 Pennsylvania Ave., NW (7408-M), Washington, DC 20460	<u>Work Assignment Manager</u> Dr. Andrew Mamantov U.S. Environmental Protection Agency 1200 Pennsylvania Ave., SW Washington, DC 20460 <u>Alternate Work Assignment Manager</u> Mr. David Lynch EAB/EETD/OPPT U.S. Environmental Protection Agency 1200 Pennsylvania Ave., SW Washington, DC 20460
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1. Background

The Exposure, Economics and Technology Division (EETD) of the USEPA Office of Pollution Prevention and Toxics (OPPT) is responsible for assessing potential exposure, physical-chemical properties and environmental fate of chemicals regulated under the Toxic Substances Control Act (TSCA). The purpose of this work assignment is to provide technical and processing support for High Production Volume (HPV) and other assessment activities in the areas of physical-chemical properties and environmental fate in the Existing Chemicals Program.

HPV/MPV - The High Production Volume /Medium Production Volume Program is an initiative to induce the chemical industry to test HPV/MPV chemicals for which data are missing or inadequate to assess hazard. EETD has a key role in reviewing voluntary testing plans, test data summaries (e.g., robust summaries) and assessments by chemical companies and associations.

Work Plan/Action Plans-These documents summarize available hazard, environmental fate, exposure, and use information on chemicals; outline the risks that each chemical may present; and identify the specific steps the Agency is taking to address those concerns.

II. Tasks and Deliverables:

The WAM will review all deliverables in draft form and provide revisions and/or comments to the contractor. The contractor shall prepare the final deliverables incorporating the WAM's comments. The contractor will not duplicate any work previously performed.

Section 508 compliance requirements. All deliverables shall be in compliance with Section 508, Accessibility Standards of the Rehabilitation Act, of 1973 and Amendments of 1998. When preparing deliverables, the contractor shall refer to the most recent version of the 508 Standards at: <http://www.access-board.gov/sec508/guide/>.

Contractor personnel shall at all times identify themselves as contractor employees and shall not present themselves as EPA employees. Furthermore, they shall not represent the views of the U.S. Government, EPA, or its employees. In addition, the contractor shall not engage in inherently governmental activities, including but not limited to actual determination of EPA policy and preparation of documents on EPA letterhead.

QUALITY ASSURANCE (QA) REQUIREMENTS

The contractor shall submit with their technical proposal a written Quality Assurance Project Plan for any project that is developing environmental measurements or a Quality Assurance Supplement to the Quality Management Plan for any project which generates environmental data using models.

Task 1 - Submit Work Plan

The contractor shall prepare and submit a work plan within 15 calendar days of receipt of a work assignment signed by the Contracting Officer (CO). The work plan shall outline, describe and include the technical approach, resources, timeline and due dates for deliverables, a detailed cost estimate by task and a staffing plan. The WAM, Project Officer (PO), and the CO will review the work plan. However, only the CO can approve/disapprove, suggest revisions, or change the work plan. Official revisions will be given to the contractor by the CO. The contractor shall prepare a revised work plan incorporating the CO's comments, within three calendar days, if required.

Task 2 – Review HPV/MPV Chemicals, Work Plan/Action Plan Chemicals, Halogenated, Perfluorinated and Existing Chemical Reviews, Test Plans and Data Summaries

The contractor shall review physicochemical properties and environmental fate test plans and test data summaries (e.g., robust summaries) of the chemical or chemical category submitted by the chemical industry. The above should be done with the assistance /comparison of information obtained from literature and databases/programs such as PHYSPROP (in ISIS) and EFDB databases and the EPIWIN program (see Tasks 3 and 4 below).

Task 3 – Prepare Written Fate/Transport Report

The contractor shall prepare a written fate/transport review of the above along with a recommendation of whether the sponsor's approach to testing the chemical or chemical category is reasonable. The latter should be done keeping in mind that measured values are preferred to estimated values, and in accordance with relevant EPA guidance for HPV chemicals. An

estimated value for Log Kow is acceptable and the use of fugacity based multimedia modeling, i.e., fugacity level 111 model for transport/distribution is also acceptable.

Task 4 - Chemical Literature Search and Data Retrieval

The contractor shall search and retrieve published and unpublished chemical literature from secondary sources as well as internal EPA data sources, to support HPV/MPV, Work Plan/Action Plan, halogenated, perfluorinated and Existing Chemical activities. An important OPPT tool is the Environmental Fate Data Base (EFDB) which consists of several files that incorporate data or pointers to data on physical-chemical properties and environmental fate of organic compounds. BIOLOG and DATALOG are EFDB files that contain pointers to data relevant to environmental fate assessment for more than 30,000 organic chemicals. BIODEG and CHEMFATE are EFDB's other two principal files and contain extracted fate data.

Task 5 - Improvements to EPIWIN

The contractor shall make improvements to the EPIWIN program using HPV/MPV chemicals' data and other data upon technical direction from the WAM.

Task	Deliverable	Due Date	Number of Copies
1	Submit work plan	Within 15 days after initiation of work assignment	Electronic files in MS Word
	Revise work plan (if necessary)	Within 3 days of receipt of suggested revisions/changes	Electronic files in MS Word
2	Review pchem properties and Test Plans	No Deliverable	
3	Prepare written fate/transport Report	No more than 30 days after assigned	Electronic files in MS Word
4	Chemical literature search and data retrieval	No more than 30 days after assigned	Electronic files in MS Word and/or hardcopy upon TD by WAM
5	Improvements to EPIWIN	Upon technical direction by WAM	Electronic files in MS Word and/or hardcopy upon TD by WAM